

Figure 1

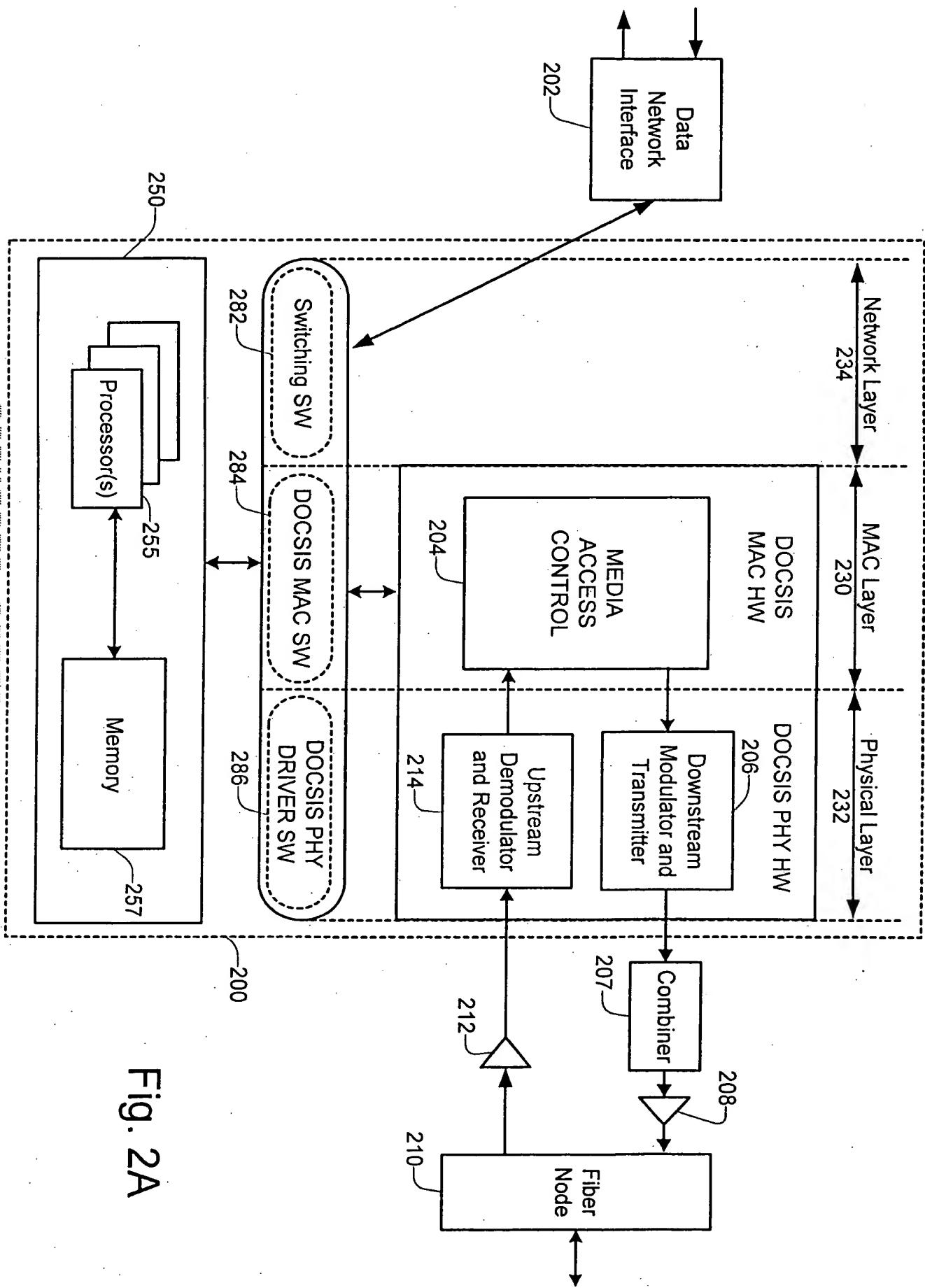
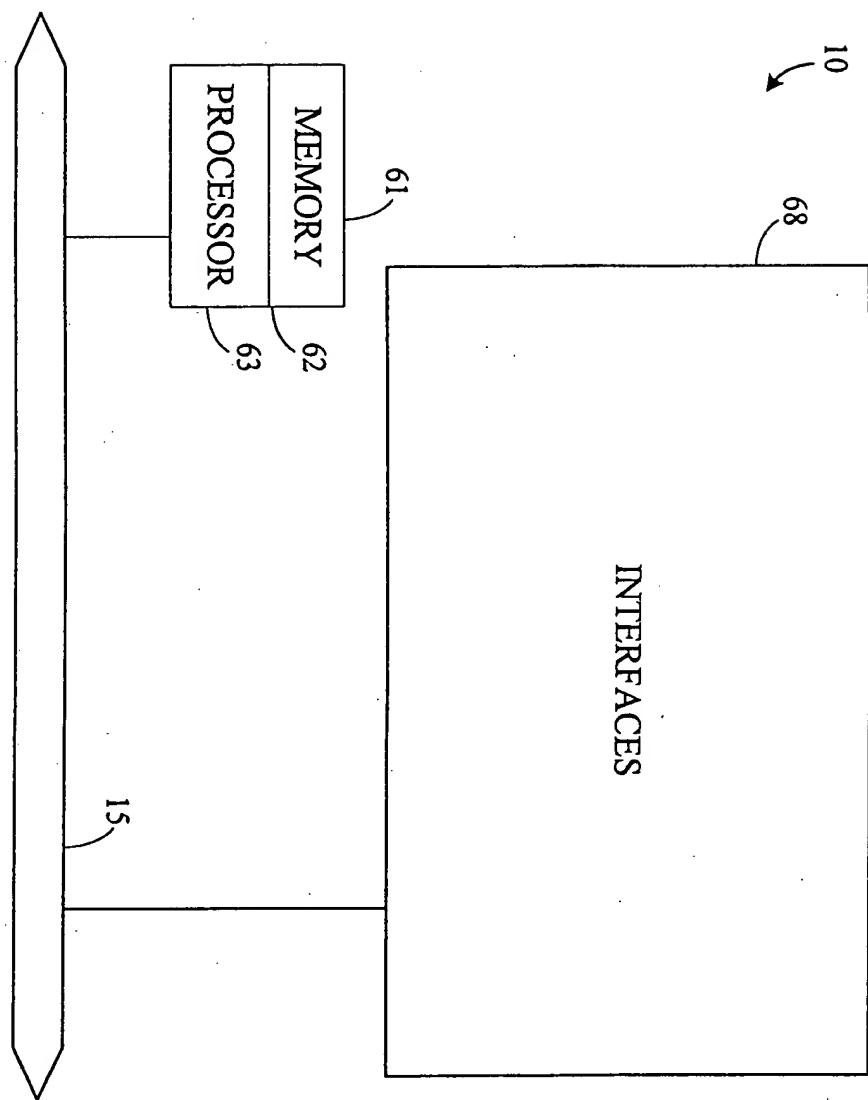


Fig. 2A

Figure 2B



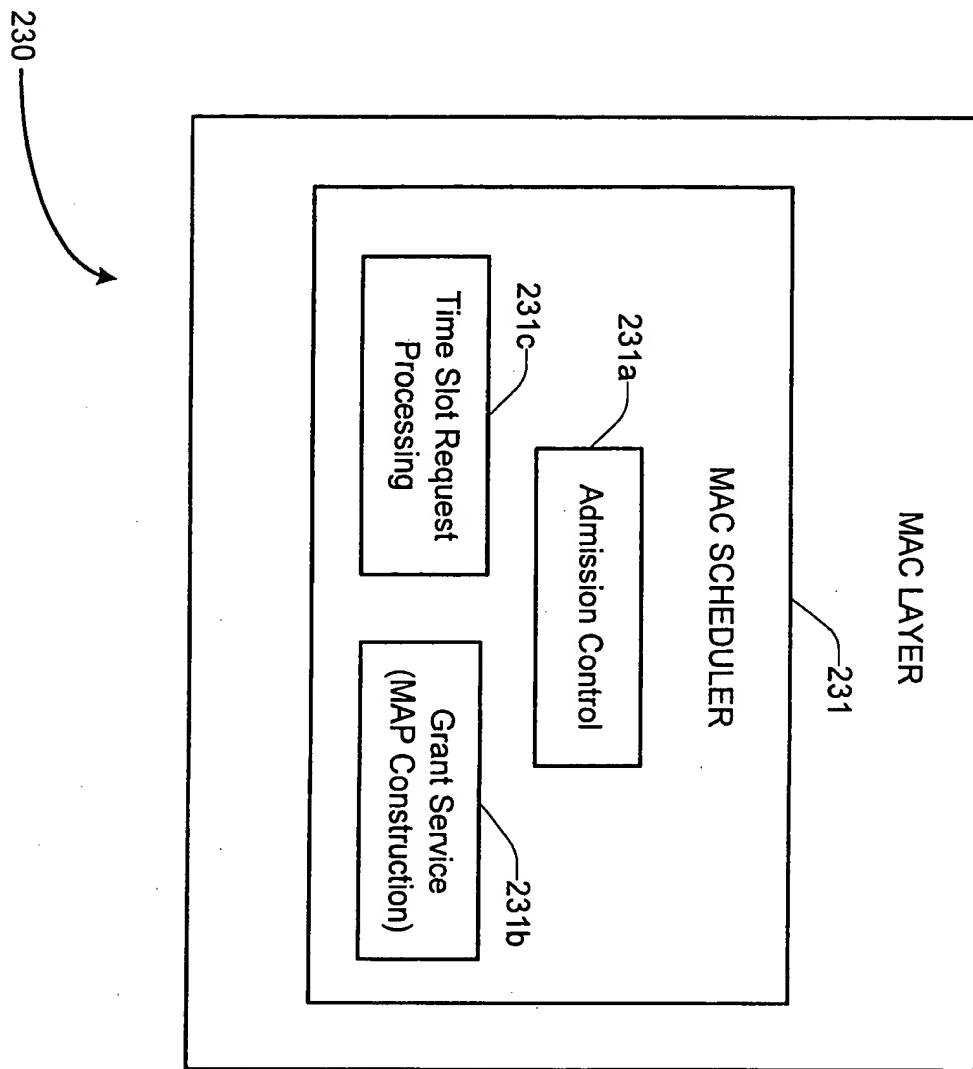


Fig. 2C

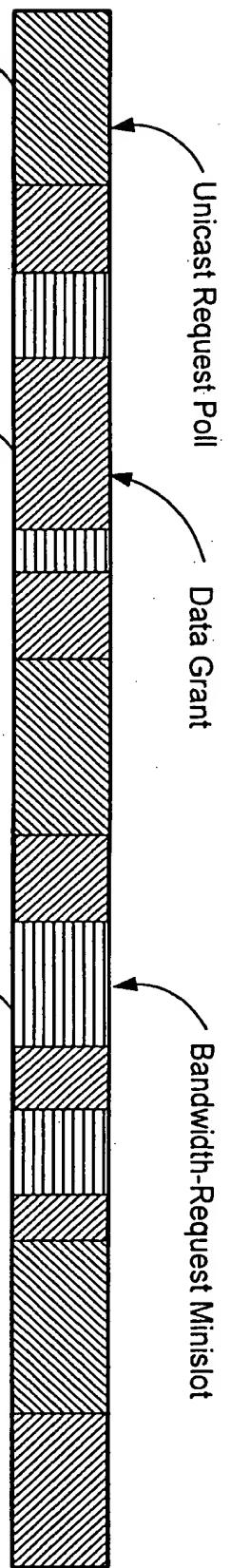


Fig. 3A
Upstream Channel[j] to CMTS

Fig. 3B
Bandwidth-Request Subchannel

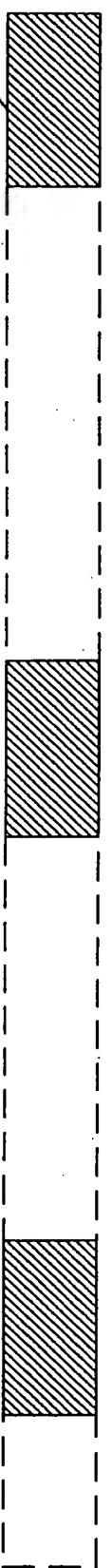


Fig. 3C
Unicast Request Poll Subchannel

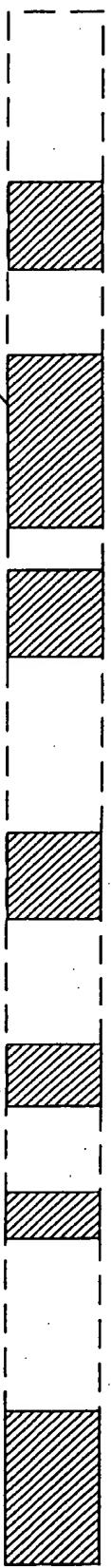
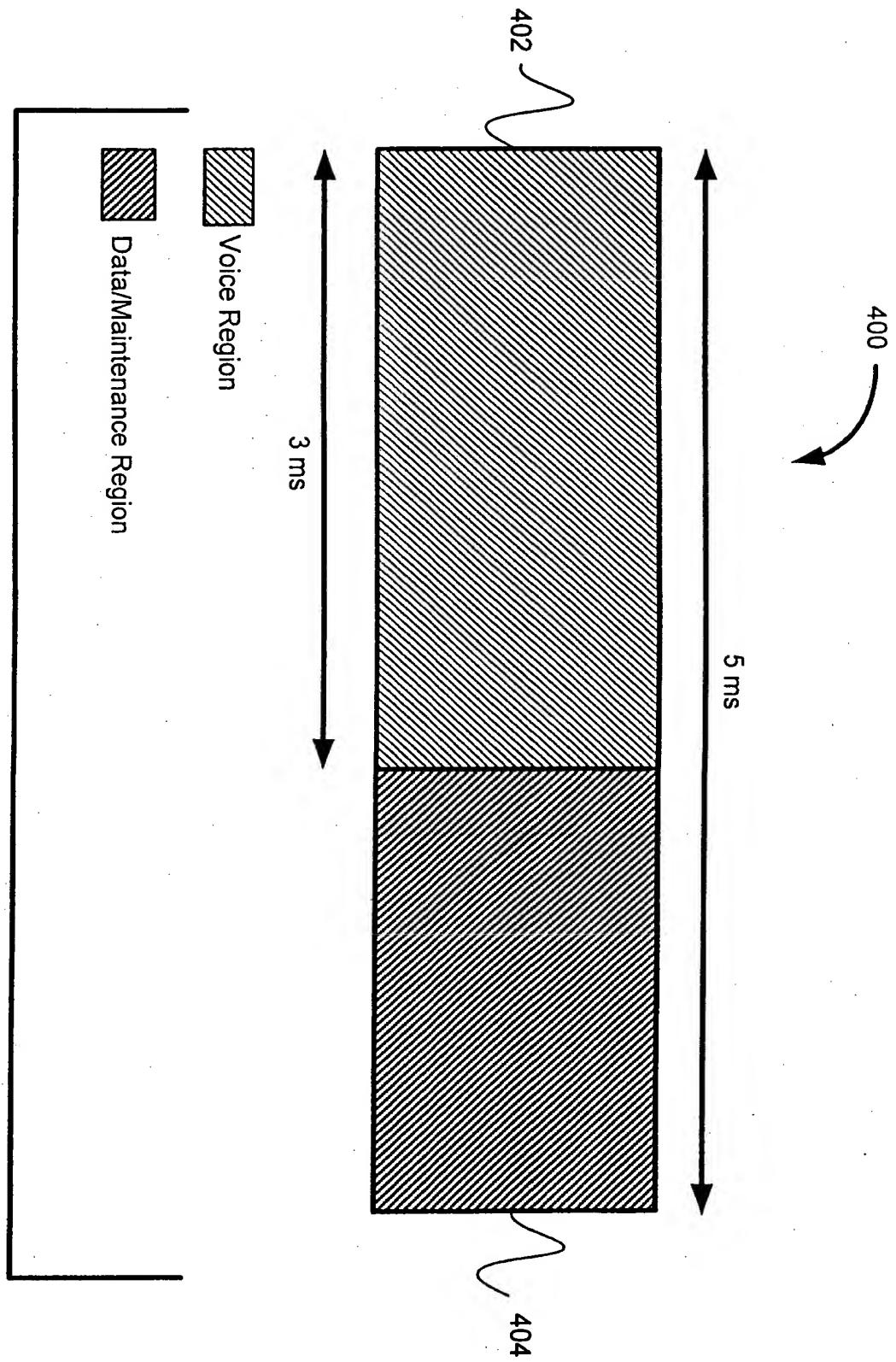


Fig. 3D
Unicast Request Poll Subchannel

Fig. 4



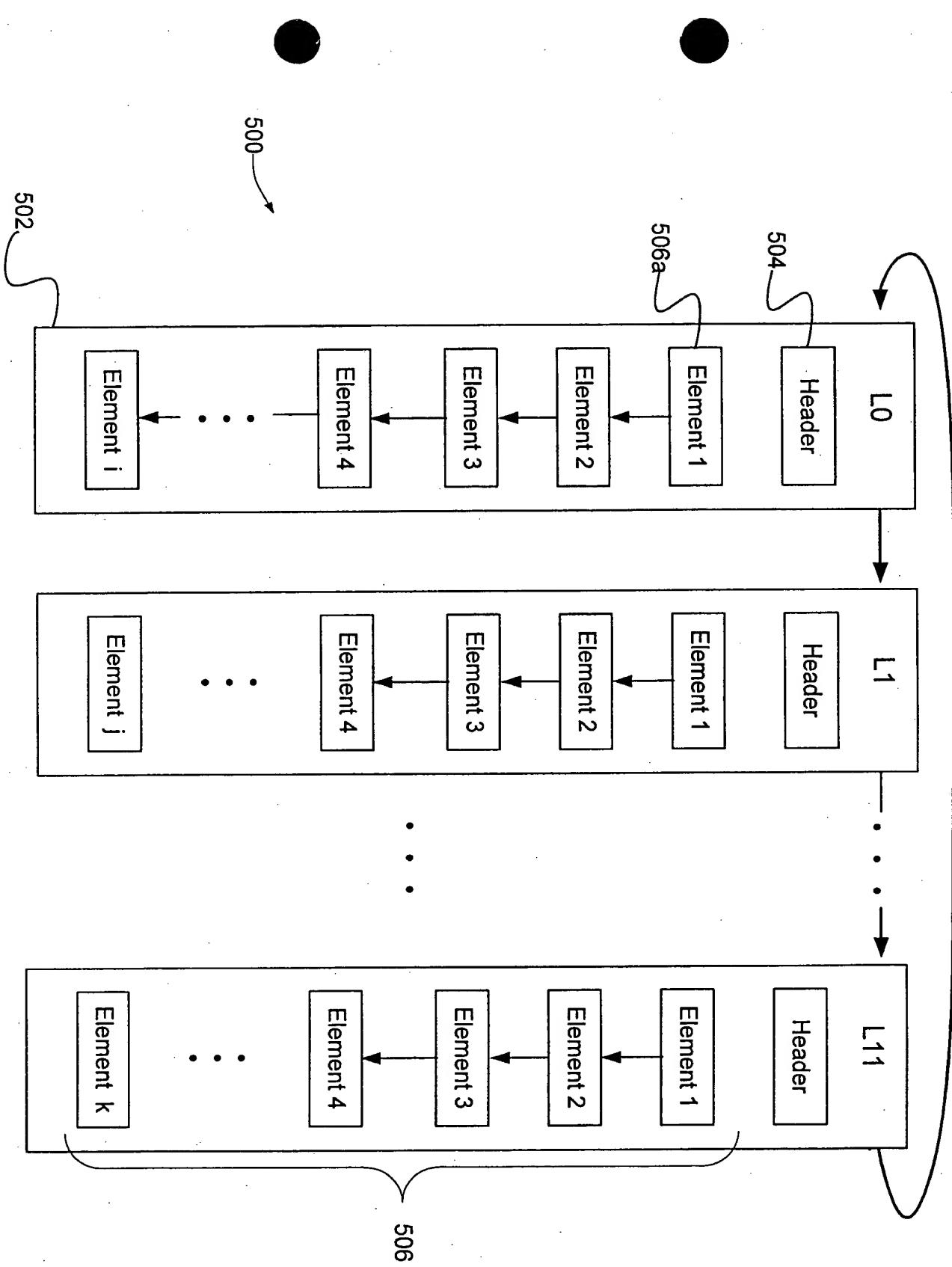
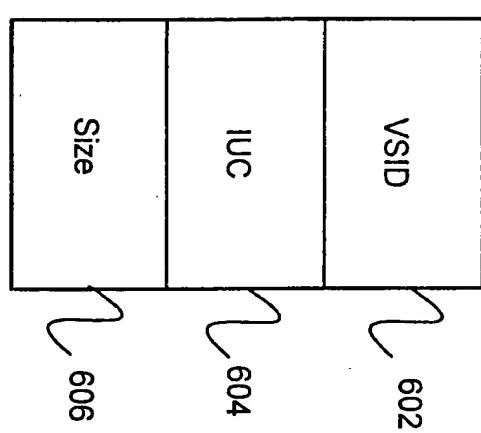


Fig. 5

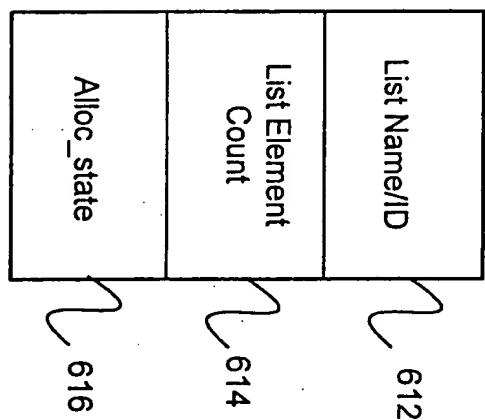
Fig. 6A



506a

504

Fig. 6B



504

Fig. 6C

616

MINISLOT No. 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 ... 58 59 60 61 62 62 63

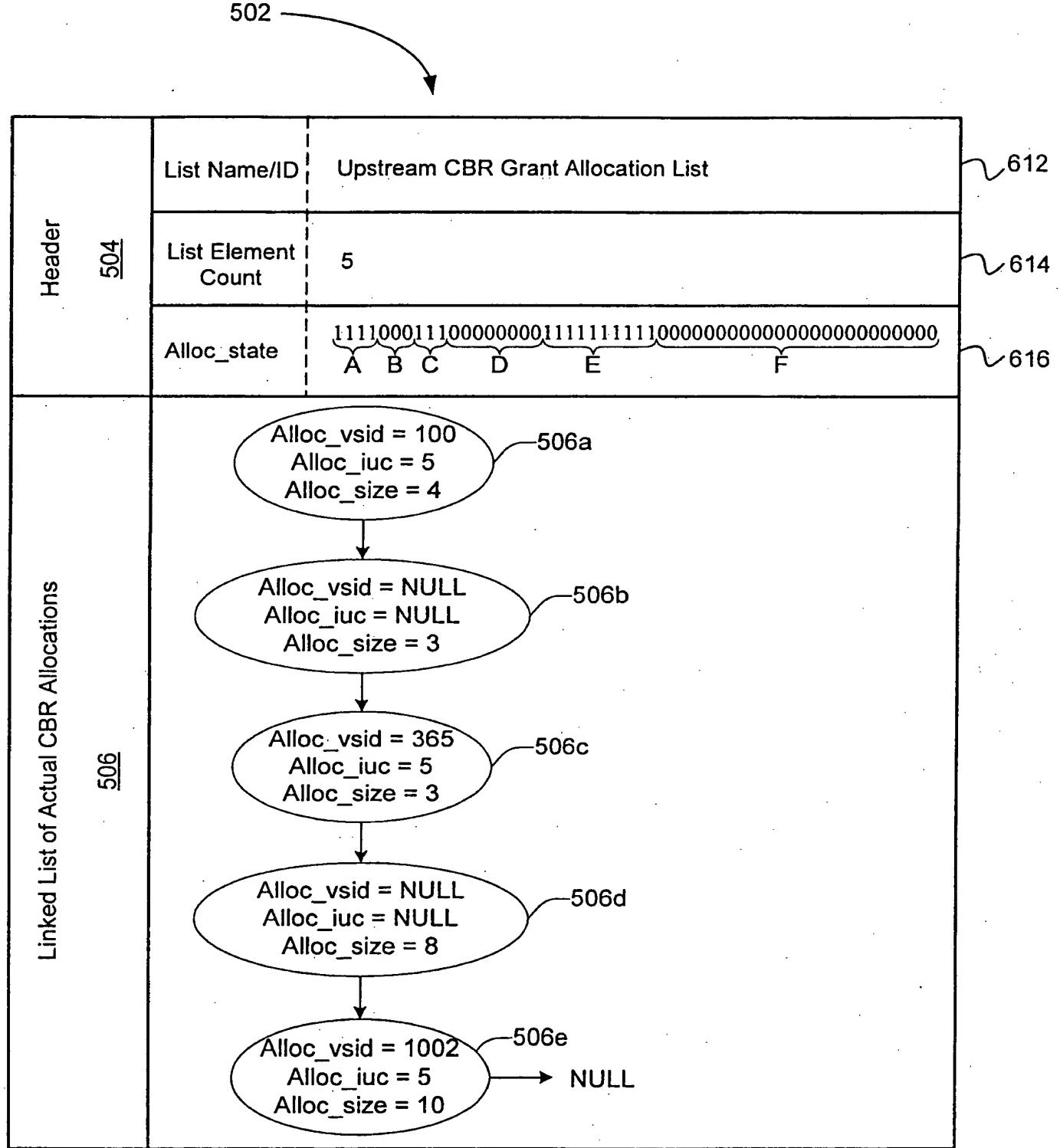


Fig. 7

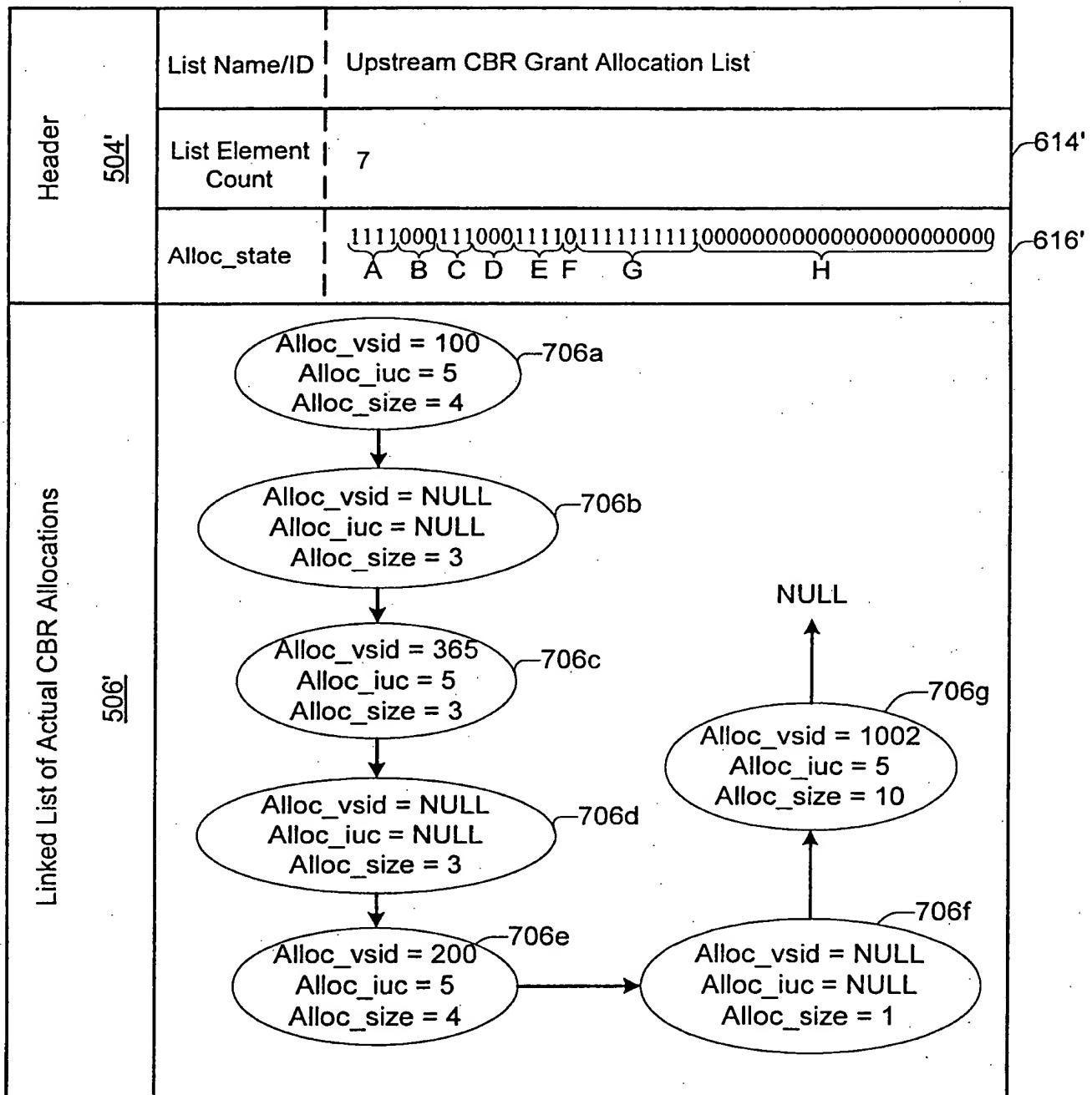


Fig. 7A

MINISLOT No.	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	...	58	59	60	61	62	63
Alloc_state[0]	1	1	1	1	0	1	0	0	0	1	1	1	0	0	0	1	0	0	1	0	0	1	0	0	0	616a
Alloc_state[2]	1	1	0	0	0	1	0	0	1	0	1	1	1	0	0	0	1	0	0	1	0	0	1	0	0	616b
Alloc_state[4]	1	1	1	0	0	1	0	0	0	0	1	1	1	0	0	0	1	0	0	1	0	0	1	0	0	616c
	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	616n
Alloc_vacancy	1	1	1	1	0	1	0	0	1	1	1	1	1	0	0	0	1	0	0	1	0	0	0	0	0	802
Mask A(12)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	0	0	0	0	0	0	804a
Mask A(13)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	0	0	0	0	0	0	804b
Mask A(14)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	0	0	0	0	0	804c
Mask A(12) AND Alloc_vacancy	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	806a
Mask A(13) AND Alloc_vacancy	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	806b
Mask A(14) AND Alloc_vacancy	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	806c
MASK B	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	810

Fig. 8

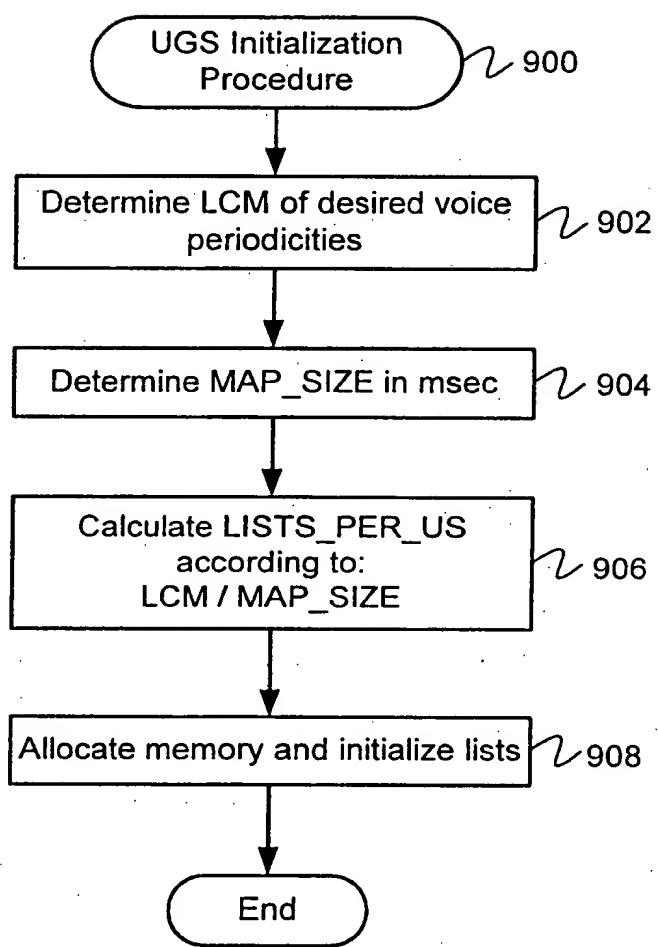


Fig. 9

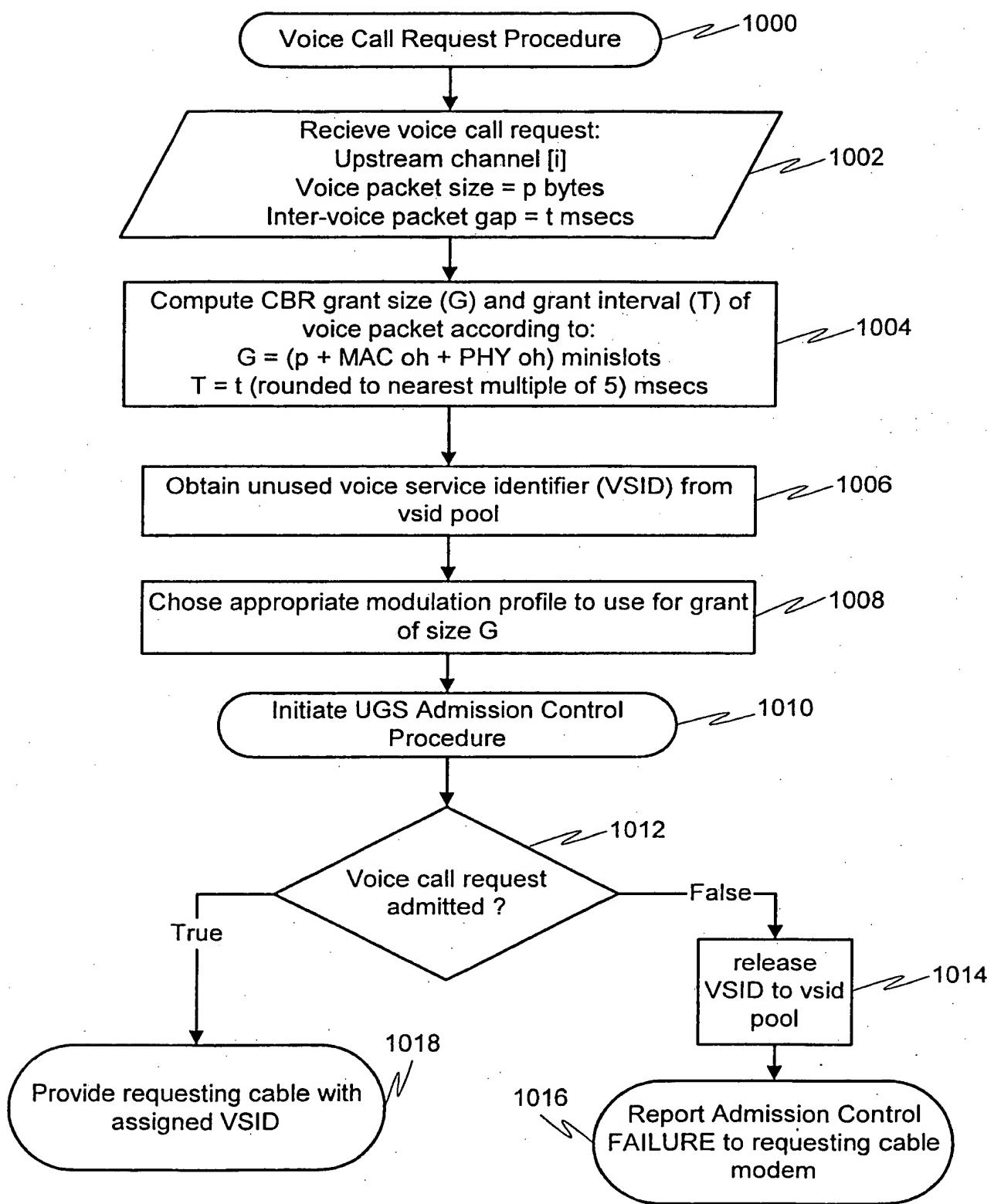


Fig. 10

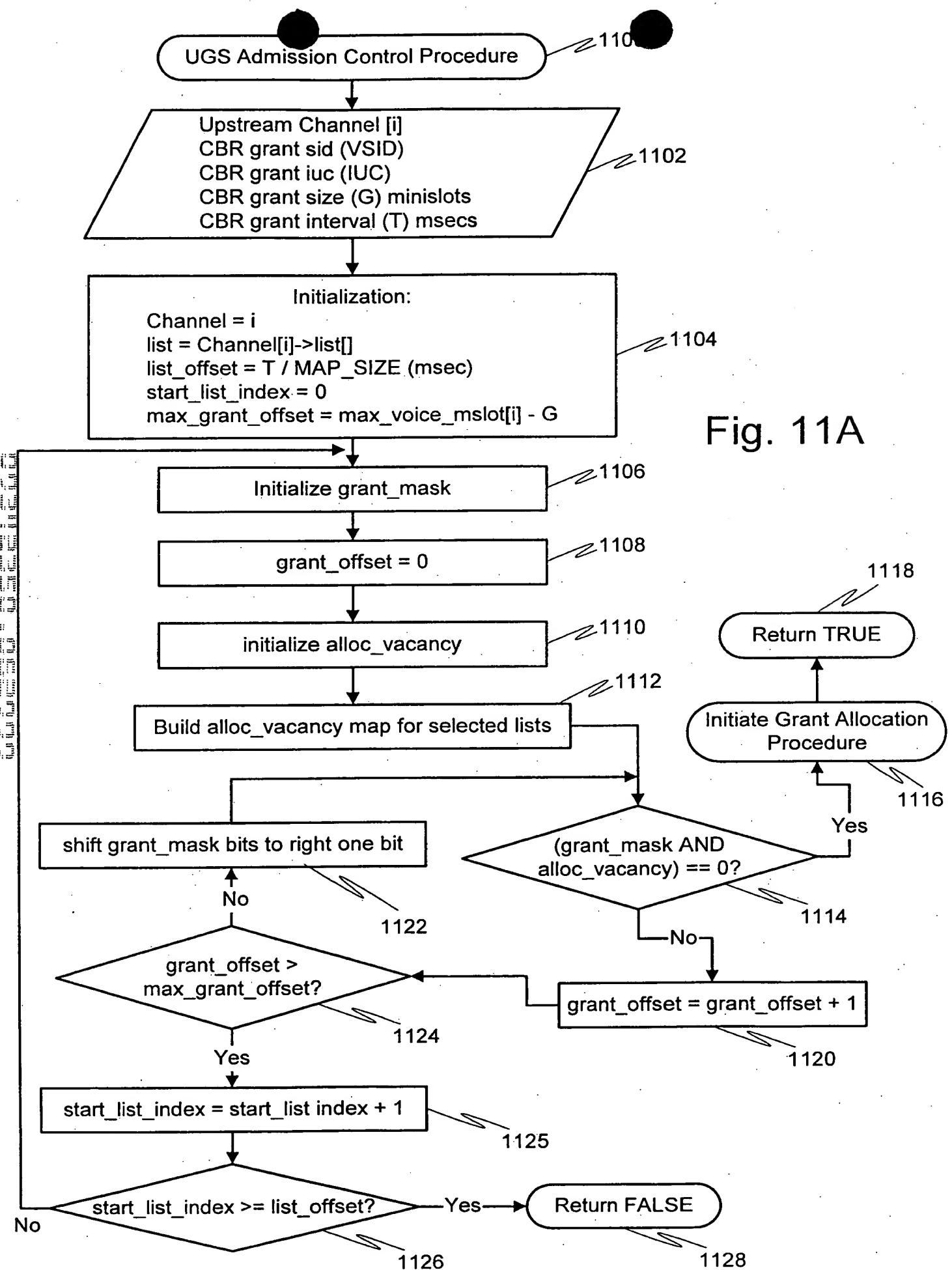


Fig. 11A

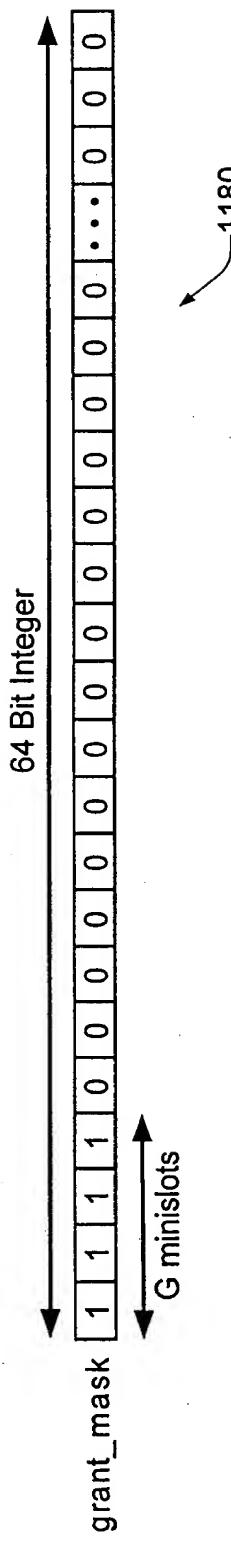


Fig. 11B

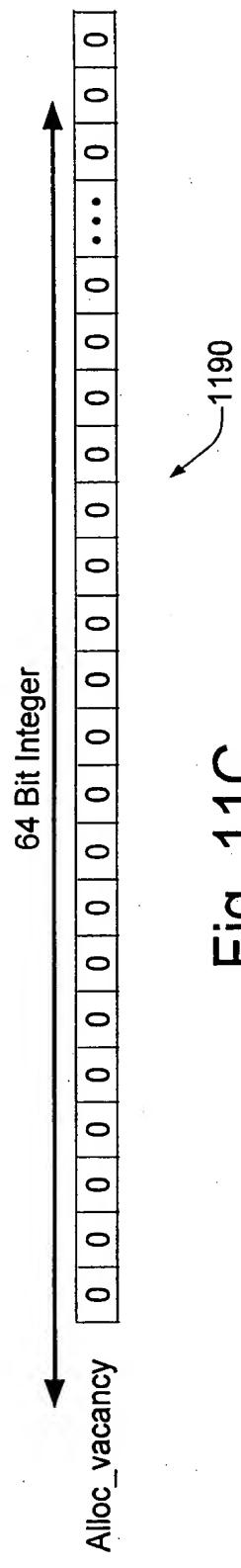


Fig. 11C

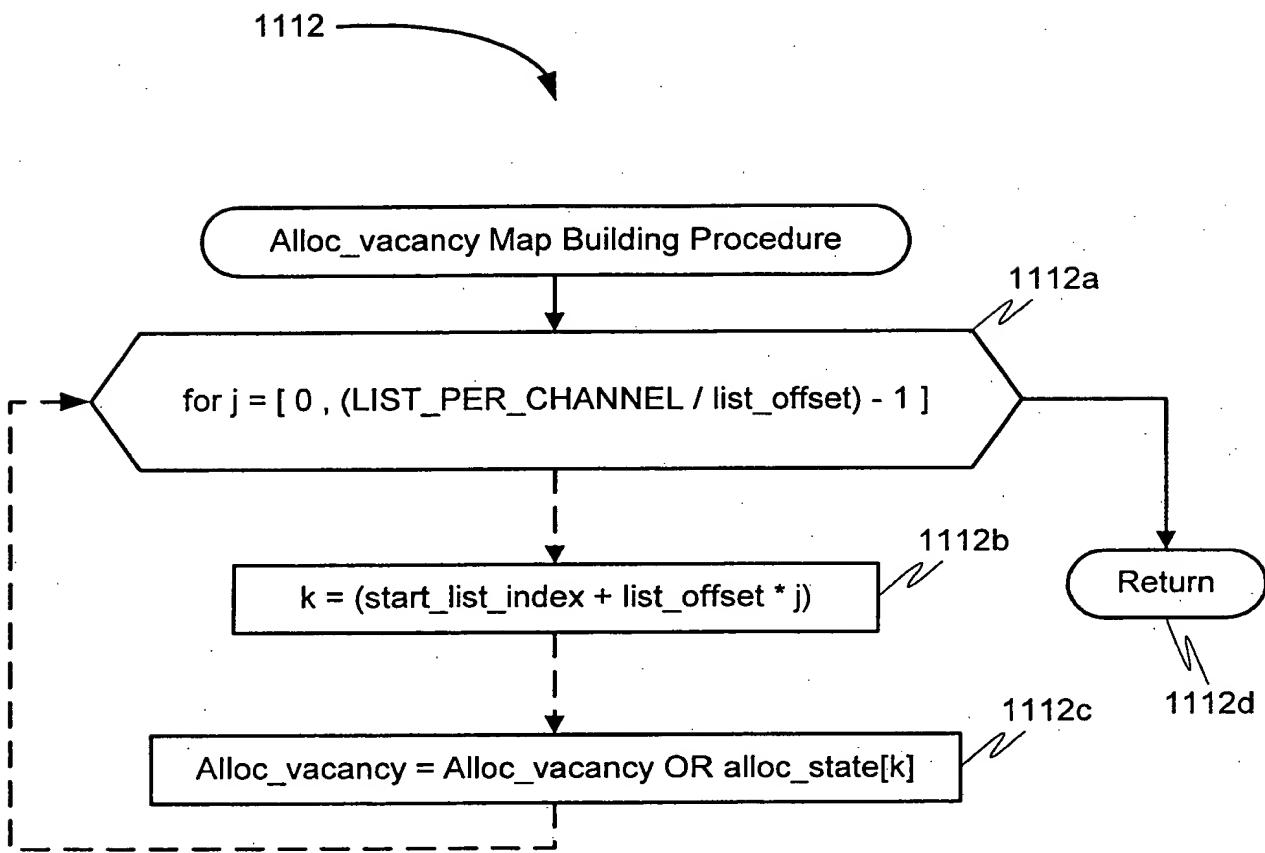
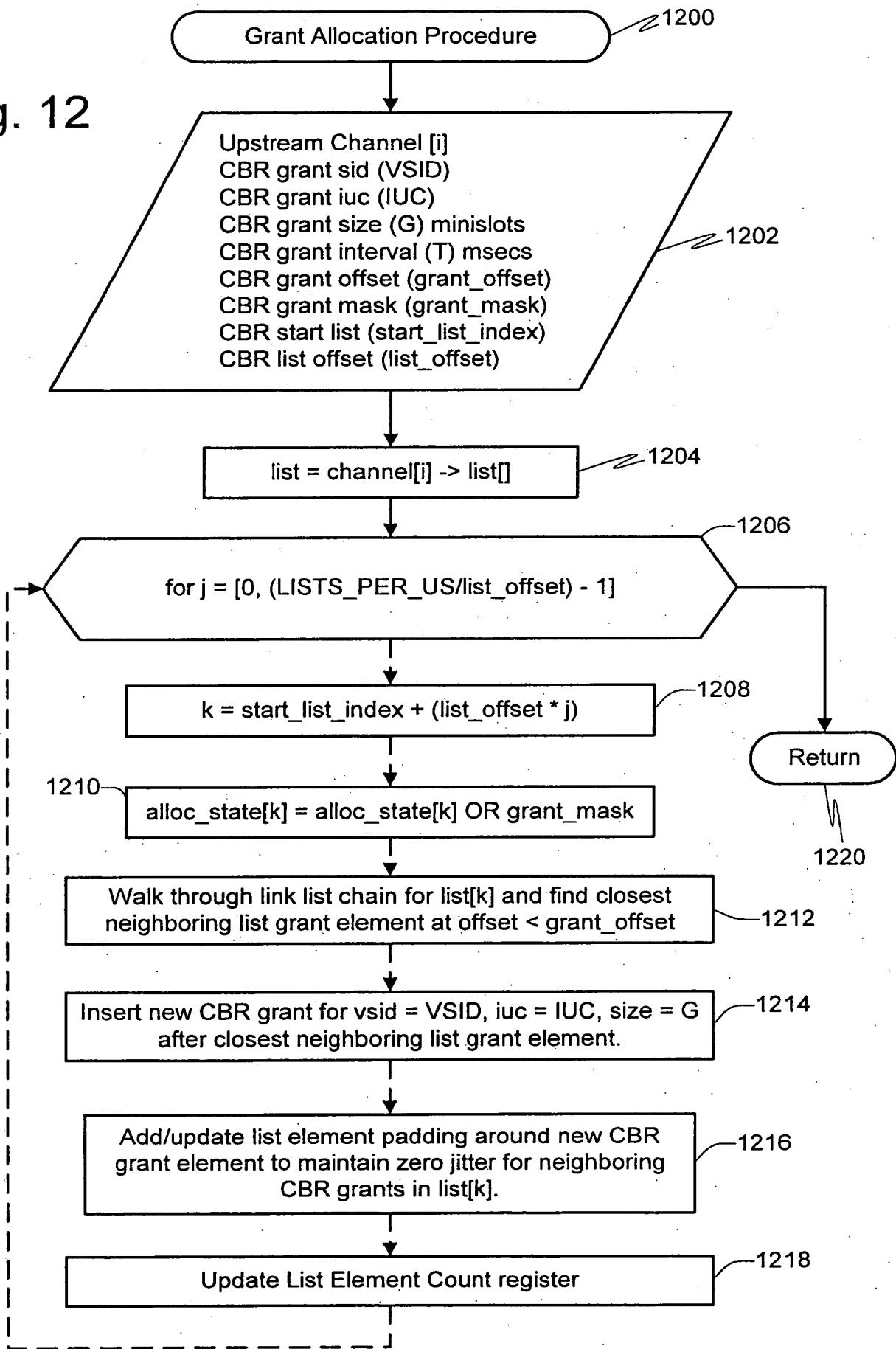


Fig. 11D

Fig. 12



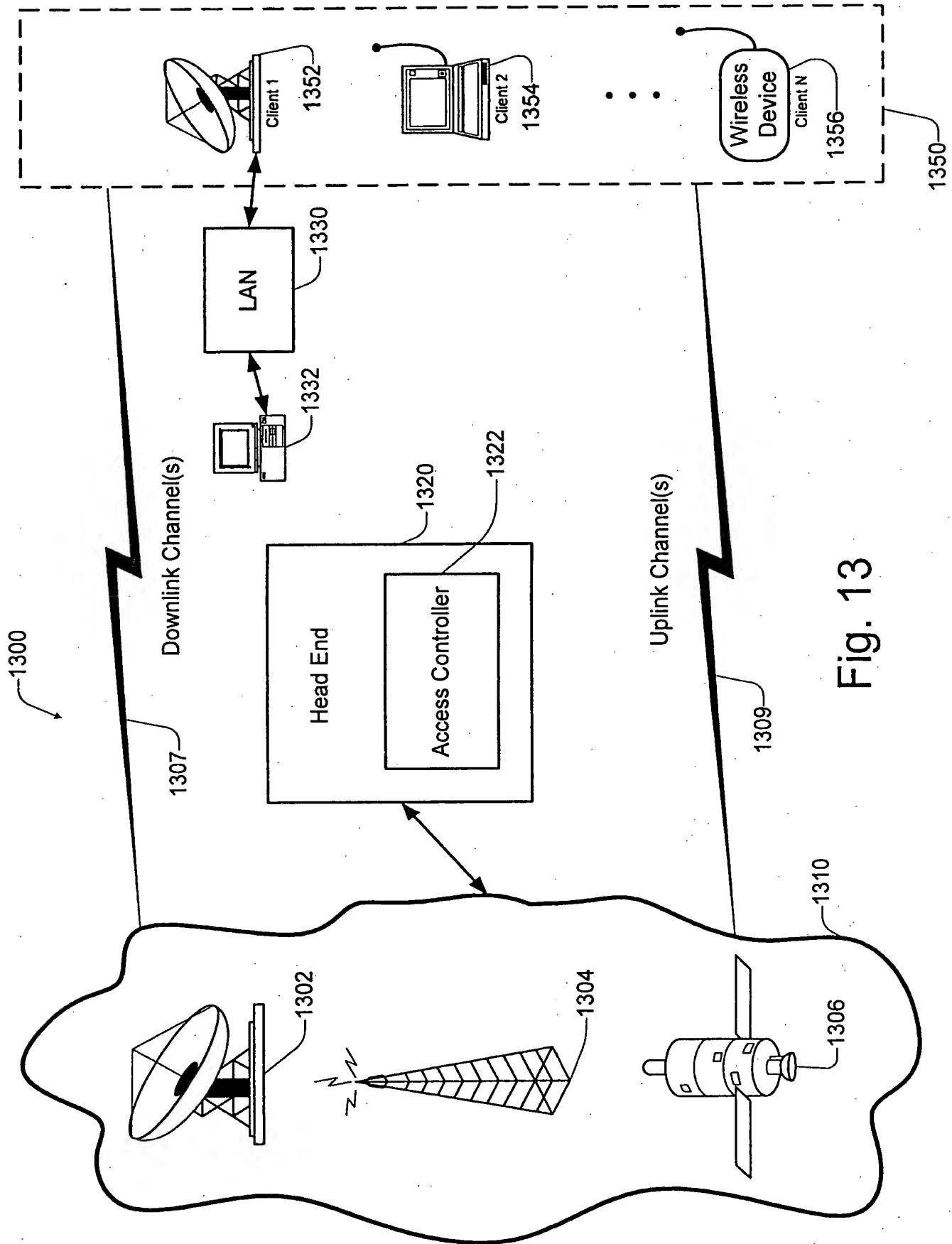


Fig. 13